To: From: Sent: Subject:	Engelking, Pat (MPCA)[pat.engelking@state.mn.us] Marko, Katharine Wed 7/22/2015 3:27:42 PM RE: Productive Meeting Yesterday
Pat,	
	I I will be available from 1-3pm on August 13 th to meet with you. Let me know if you rrange a call-in line, if not, I will from my end.
Thanks,	
Katie	
From: Engelking, Pat (MPCA) [mailto:pat.engelking@state.mn.us] Sent: Wednesday, July 22, 2015 10:13 AM To: Marko, Katharine Cc: Kessler, Katrina (MPCA); Monson, Phil (MPCA); Blaha, Gerald (MPCA); Lotthammer, Shannon (MPCA); Swain, Ed (MPCA) Subject: RE: Productive Meeting Yesterday	
Hi Katie,	
our staff	gust 12 or August 13 from 12:30-2:30 or 1-3 work for you and Dave Pfeifer. FYI, from it will likely be Katrina Kessler, Phil Monson and Gerald Blaha. Let me know if those I times don't work for you and we can try for others.
Pat	
Patricia I	Engelking
Environmental Analysis and Outcomes	

651-757-2340

pat.engelking@state.mn.us

From: Marko, Katharine [mailto:Marko.Katharine@epa.gov]

Sent: Tuesday, July 21, 2015 4:53 PM

To: Engelking, Pat (MPCA)

Cc: Kessler, Katrina (MPCA); Lotthammer, Shannon (MPCA)

Subject: RE: Productive Meeting Yesterday

Pat.

That would be great, I have a fairly open schedule and will be in the office over the next couple of weeks. Dave Pfeifer will be on vacation on 7/28 thru 8/7 if you want him to attend as well. Let me know a time that works best for you guys.

Thanks,

Katie

Katharine Marko

US EPA Region 5 Water Quality Branch WQ-16J 77 W. Jackson Blvd. Chicago, IL 60604 marko.katharine@epa.gov

(312) 886-1473

From: Engelking, Pat (MPCA) [mailto:pat.engelking@state.mn.us]

Sent: Tuesday, July 21, 2015 2:17 PM

To: Marko, Katharine

Cc: Kessler, Katrina (MPCA); Lotthammer, Shannon (MPCA)

Subject: RE: Productive Meeting Yesterday

Hi Katie,

Thanks for your e-mail. We were discussing this at our wild rice check in and thought it would be good have a 2-hour conference call with you and Dave Pfeifer to help get you up to speed on the technical and policy issues associated with our proposal. Can you send me some times when you and Dave might be available in the next 2-3 weeks so that you can be an informed observer at the Tribal Consultation on August 26. Thanks.

Pat

Patricia Engelking

Environmental Analysis and Outcomes

Minnesota Pollution Control Agency

651-757-2340

pat.engelking@state.mn.us

From: Marko, Katharine [mailto:Marko.Katharine@epa.gov]

Sent: Friday, July 17, 2015 9:57 AM

To: Engelking, Pat (MPCA)

Subject: RE: Productive Meeting Yesterday

Pat.

I too was curious as to why the technical committee elected to go with EC10 versus EC20. Is there a person over there who might be able to give me some background on this decision over the phone?

Please don't forward this to the rest of the technical group. I am simply trying to gather some context as I am new to EPA R5, not making a statement.

Thanks,

Katie

Katharine Marko

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(312) 886-1473

From: Engelking, Pat (MPCA) [mailto:pat.engelking@state.mn.us]

Sent: Wednesday, July 15, 2015 12:41 PM

To: Anne Nelson; Beth Nelson; Craig Johnson; Dvogt@1854treatyauthority.org; David D. Biesboer (biesboer@umn.edu); David Hatchett; David Smiga (dlsmiga@uss.com); Engstrom, Jennifer N (DNR); Frank Ongaro; Geisen, Ann (DNR); grootw@gmail.com; Joe Mayasich; John Lenczewski (jlenczewski@comcast.net); Kathryn Hoffman; Kurt Anderson; Leonard Anderson; Mike Appelwick (<a href="mailto:ma

Richards; Rod Ustipak (<u>rodustipak@charter.net</u>); Sara Barsel (<u>sara.barsel@q.com</u>); Shane Bowe; Steve Nyhus; Tracy Ekola

Cc: Bael, David (MPCA); Blaha, Gerald (MPCA); Cole, William (MPCA); Engelking, Pat (MPCA); Kaufenberg, Elizabeth (MPCA); Kessler, Katrina (MPCA); Lotthammer, Shannon (MPCA); Monson, Phil (MPCA); Nankivel, Carol (MPCA); Swain, Ed (MPCA); Andrew Chelseth; Annette Drewes; Bill Brice (williambrice@msn.com); Bill Latady;

<u>clbartovich@uss.com</u>; Craig Pagel; Dave Schimpf; Howard Markus; jaime johnson; Jeff Hanson; Joe Legarde; Marko, Katharine; keith hanson; Kristen; Larry Baker; Lea Foushee; Lori Andresen; Michael Price; <u>mjh@barr.com</u>; Peder Larson; Scott Hall; Stephanie Hemphill;

Stephen R. Grattan; Tom Moe

Subject: FW: Productive Meeting Yesterday

FYI. Additional follow-up from yesterday's meeting from Joe Mayasich.

Pat

Patricia Engelking

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From: Joe Mayasich [mailto:Joe.Mayasich@wlssd.com]

Sent: Wednesday, July 15, 2015 11:26 AM

To: Lotthammer, Shannon (MPCA); Kessler, Katrina (MPCA); Monson, Phil (MPCA); Swain, Ed (MPCA);

Engelking, Pat (MPCA)

Subject: Productive Meeting Yesterday

It was indeed (in my opinion). I thank you for facilitating effectively.

I have given the EC subscript level more thought because it is now, and will continue to be, very

influential. I was not much good at geometry, but I have applied it crudely to try to get an important point across with the attached slide. As I had indicated yesterday, I fully agree that the EC approach (vs. NOEC, LOEC) is correct; however, I did not come away yesterday with adequate technical/quantitative reassurance that 10 is the appropriate subscript. If the use of 10 will be MPCA policy, as alluded to at the meeting, then that (policy) becomes debatable outside of scientific disciplines; does it not?

Lastly, I'd like to follow-up with more discussion on transforming (via arcsine) the percentages before the binary logistic regressions are performed. The raw data are "discrete" not "continuous" because waters are scored and tallied according to rice presence or absence; not measured on a scale and recorded. The percentages are calculated from the presence/absence count data; are they not? Therefore, pre-analysis arcsine transformation of the percentages should be seriously considered <u>unless</u> the assumptions of the binary logistic regression can be met without performing such a transformation.

Please share all or portions of this communication as you deem appropriate. I hope that my input is helpful.

Joe M. Mayasich, Ph.D.

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